M 5.9, 87 km NE of Yigo Village, Guam

Origin Time: 2020-06-23 17:50:26 UTC (Wed 03:50:26 local)
Location: 14.0069° N 145.5380° E Depth: 68.1 km

PAGER
Version 5

Created: 1 day, 0 hours after earthquake

Estimated Fatalities

65%
30%
4%

1   10   100   1,000   10,000   100,000
Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.
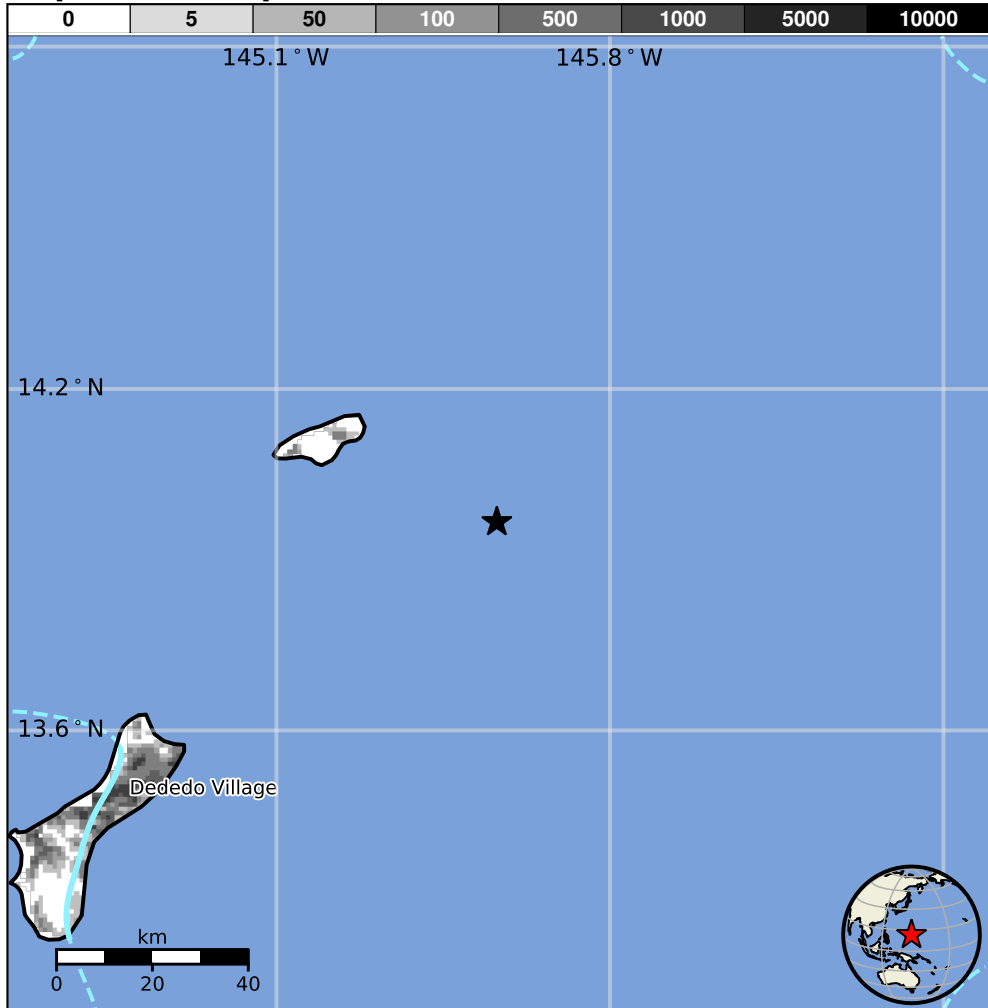
Estimated Economic Losses

65%
30%
4%

1   10   100   1,000   10,000   100,000
USD (Millions)

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	49k*	126k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

0	5	50	100	500	1000	5000	10000

145.1° W   145.8° W

14.2° N

13.6° N

Dededo Village

km
0   20   40

Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are informal (metal, timber, GI etc.) and unknown/miscellaneous types construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2001-10-12	149	7.0	VII(48k)	0
2002-04-26	137	7.0	VIII(2k)	0
1993-08-08	133	7.7	IX(3k)	0

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Mangilao Village	15k
IV	Barrigada Village	9k
IV	**Dededo Village**	**45k**
IV	Talofofo Village	3k
IV	Yigo Village	21k
IV	Yona Village	6k
IV	Chalan Pago-Ordot Village	7k
IV	Mongmong-Toto-Maite Village	7k
IV	Tamuning-Tumon-Harmon Village	20k
III	Santa Rita Village	8k
III	Agat Village	6k

bold cities appear on map.   (k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.
https://earthquake.usgs.gov/earthquakes/eventpage/us6000ahcr#pager

Event ID: us6000ahcr